LIST OF CONTENTS

VOLUME 1 NUMBER 1

I. F. H. Purchase and Gordon C. Hard 1 Editorial

H. Babich and E. Borenfreund 3 Structure–activity relationship (SAR) models established *in vitro* with the neutral red cytotoxicity assay

R. Bechter and B. P. Schmid 11 Teratogenicity *in vitro*—a comparative study of four antimycotic drugs using the whole-embryo culture system

T. M. Coutts, A. J. Alldrick and I. R. Rowland 17 Use of continuous culture to study the gastric microflora of a hypochlorhydric patient

M. A. Smith, D. Acosta and J. V. Bruckner 23 Cephaloridine toxicity in primary cultures of rat renal cortical epithelial cells

P. M. D. Foster, S. C. Lloyd and M. S. Prout 31 Toxicity and metabolism of 1,3-dinitrobenzene in rat testicular cell cultures

A. W. Butler, R. P. Farrar, M. A. Smith and D. Acosta 39 Attenuation of ethanol toxicity in primary myocardial cell cultures from offspring of swim-trained pregnant rats

Y. Ishida, C. Negishi, A. Umemoto, Y. Fujita, S. Sato, T. Sugimura, S. S. Thorgeirsson and R. H. Adamson 45 Activation of mutagenic and carcinogenic heterocyclic amines by S-9 from the liver of a rhesus monkey

J. H. Sanchez, D. J. Abernethy and C. J. Boreiko 49 Lack of di-(2-ethylhexyl) phthalate activity in the C3H/10T$\frac{1}{2}$ cell transformation system

R. M. Patterson, L. A. Keith and J. Stewart 55 Increase in chromosomal abnormalities in Chinese hamster ovary cells treated with butylated hydroxytoluene *in vitro*

VOLUME 1 NUMBER 2

T. W. Hesterberg, D. G. Ririe, J. C. Barrett and P. Nettesheim 59 Mechanisms of cytotoxicity of asbestos fibres in rat tracheal epithelial cells in culture

R. C. Brown, A. Poole, C. J. Turver and C. Vann 67 Role of iron-mediated free-radical generation in asbestos-induced cytotoxicity

S. O. Lock, J. Rockley, M. Chamberlain and J. V. Friend 71 Effects of fibrous and non-fibrous dusts on Chinese hamster V79 cells: cytotoxicity of cytostasis?

S. O. Lock, P. A. Jones, J. V. Friend and W. E. Parish 77 Extracellular release of enzymes from macrophages *in vitro* for measuring cellular interaction with particulate and non-particulate materials

K. A. F. O'Brien, L. L. Smith and G. M. Cohen 85 Inability of a human lung tumour cell line (A549) to detect chemically induced organ-specific toxicity to the lung

J. Benoit, M. Cormier and J. Wepierre 91 Effect of proteins on the assessment of surfactant cytotoxicity by an *in vitro* test: possible correlations with *in vivo* data

L. H. M. Vroomen, B. van Ommen and P. J. van Bladeren 97 Quantitative studies of the metabolism of furazolidone by rat liver microsomes

W. M. F. Jongen, R. J. Topp, H. G. M. Tiedink and E. J. Brink 105 A co-cultivation system as a model for *in vitro* studies of modulating effects of naturally occurring indoles on the genotoxicity of model compounds

Announcements 111

VOLUME 1 NUMBER 3

113 Editorial

M. F. W. Festing and T. Eydmann 115 Genetic variation in the response of mice to xenobiotics *in vitro*. I. General methodology and response to some model compounds

U. A. Boelsterli, P. Bouis and P. Donatsch 127 Psychotropic drugs as inhibitors of glycerolipid biosynthesis and secretion in primary rat hepatocyte cultures

S. A. Horner, F. Zucco, J. R. Fry, R. H. Clothier and M. Balls 133 Investigation of the cytotoxicity produced by generation of short-lived reactive metabolites *in vitro*: a study with paracetamol

A. Babatola and C. Bernstein 139 Bile compound-induced DNA damage and repair in bacteriophage T4

L. Turner, F. Choplin, P. Dugard, J. Hermens, R. Jaeckh, M. Marsmann and D. Roberts 143 Structure–activity relationships in toxicology and ecotoxicology: an assessment

Announcements 173

Forthcoming Papers 174

VOLUME 1 NUMBER 4

J. A. Holme, J. Alexander, G. Becher and B. Trygg 175 Metabolism of 2-amino-3-methylimidazo[4,5-*f*]quinoline (IQ) and 2-amino-3,4-dimethylimidazo[4,5-*f*]quinoline (MeIQ) in suspensions of isolated rat-liver cells

J. H. Sanchez, C. J. Boreiko, J. Furlong and T. W. Hesterberg 183 Differential effects of tumour promoters on the growth of normal human bronchial epithelial cells and human lung tumour cell lines

J. A. Poiley, R. Raineri, M. K. Ernst and R. W. Tennant 189 A method for accelerating progression to a malignant phenotype in rodent cells

R. Raineri, M. K. Ernst and J. A. Poiley 195 A selection procedure for the rapid expression of carcinogen-induced malignant transformation of retrovirus-infected Fischer rat embryo cells

C. Holzer and P. Maier 203 DNA and protein contents of hepatocytes in primary cultures monitored by flow cytometry: effect of phenobarbital and dimethylsulphoxide

S. Rossberger and U. Andrae 215 Background DNA repair synthesis in rat hepatocyte cultures used for genotoxicity testing

R. Bechter and L. Hall 225 *In vitro* embryotoxicity and teratogenic potential of etretinate and etretin

K. Saijoh, Y. Inoue and K. Sumino 233 Stimulating effect of methylmercury chloride on [^{3}H]acetylcholine release from guinea-pig striatal slices

R. P. Nolan, A. M. Langer, R. A. Eskenazi, G. B. Herson and K. W. Foster 239 Membranolytic activities of quartz standards

L. Migliore, R. Barale, D. Belluomini, A. G. Cognetti and N. Loprieno 247 Cytogenetic damage induced in human lymphocytes by adriamycin and vincristine: a comparison between micronucleus and chromosomal aberration assays

Forthcoming Papers 255